

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
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# PCT

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**  
(PCT Rule 43bis.1)

Date of mailing  
(day/month/year) **27 OCTOBER 2004 (27.10.2004)**

Applicant's or agent's file reference  
SH-20071-PCT

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
**PCT/KR2004/001696**

International filing date (day/month/year)  
**09 JULY 2004 (09.07.2004)**

Priority date(day/month/year)  
15 JULY 2003 (15.07.2003)

International Patent Classification (IPC) or both national classification and IPC  
**IPC7 G11B 7/085**

Applicant

**SAMSUNG ELECTRONICS CO., LTD. et al**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

## 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001696

**Box No. I Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format  
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001696

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	<u>1-5</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-5</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-5</u>	YES
	Claims		NO

**2. Citations and explanations :**

Reference is made to the following documents:

D: JP 05-325210 (PIONEER ELECTRONIC CORP) 10 Dec. 1993 //

**1. Novelty and Inventive Step**

The subject matter of claims 1-5 of the present invention is a track jump apparatus and method which perform track jumping in consideration of the position of a pickup and the position of a lens of the pickup in an optical recording medium and system with eccentricity are provided.

D discloses a method of performing a stable jump without being affected by the eccentricity of an optical disk by varying either one of the time width or the wave height value of a brake pulse in accordance with the time till a zero crossing of tracking error signals which correspond to the amount of the disk eccentricity.

However, D does not include a servo which judges a position of the pickup from the error signal output from RF processing unit when a track jump is performed and outputs a track jump start/end control signal for the pickup, which gives clear indication of an improvement on a track access control system.

Therefore, the subject matter of the claim 1-5 of the present invention seems to be novel, and considered to involve an inventive step(PCT Article 33(2)-(3)).

**2. Industrial Applicability**

Claims 1-5 of the present invention meet the criteria set out in PCT Article 33(4) because they are directed to a track jump apparatus and method in an optical recording medium and system. Therefore, the subject matter of claims 1-5 is considered to be industrially applicable.